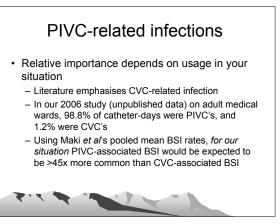
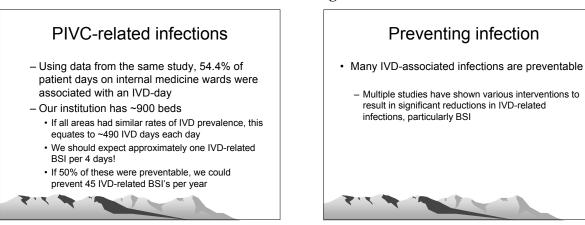
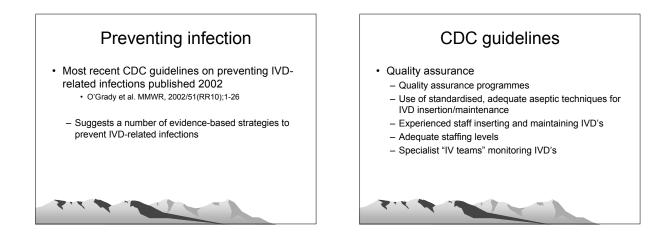


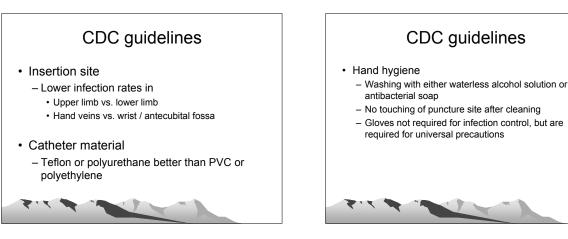
- Recent meta-analysis
 - Maki DG, Kluger DM, Crnich CJ. Mayo Clin Proc. 2006 Sep;81(9):1159-71.
 - Included prospective, English-language reports from 1966 to 2005
 - Reports pooled BSI rates from studies for different types of IVD

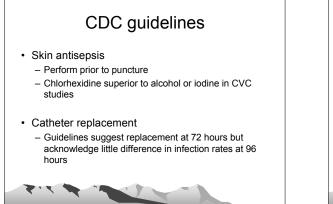
Device type	BSI/1000 catheter days
Plastic short PIVC	0.5
Inpatient PICC	2.1
Non-tunneled/cuffed CVC	2.7
CVC chlorhexidine/silver sulphadiazine coated	1.6
CVC minocycline/rifampicin impregnated	1.2











CDC recommendations

- · Education of healthcare workers
- Encouraging patients to report IVD-related symptoms
- · Daily inspection / palpation of IVD site
- Hand hyiene (need not removed by gloves)
- Aseptic technique for insertion and use
- Sterile transparent or absorbent dressing over insertion site

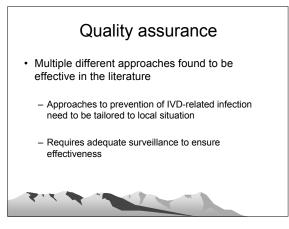


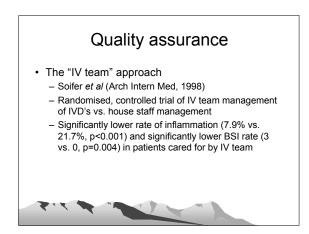
CDC recommendations

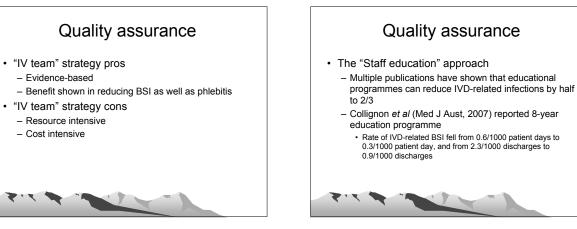
- Do not use antimicrobial ointments on insertion sites
- Do not submerge catheter under water
- Change dressing if wet/dirty/loose
- Aim for lowest infection risk in terms of site selection/catheter type/insertion technique
- · Promptly remove unnecessary IVD's

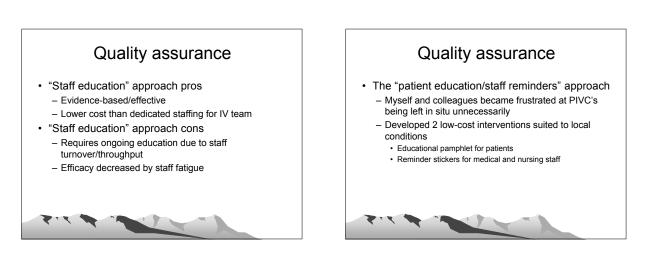
CDC recommendations

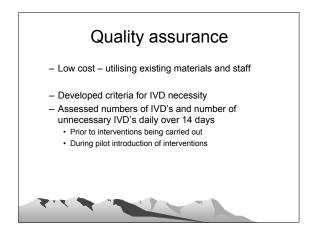
- Replace PIVC's every 72-96 hours
- Remove IVD's if phlebitis, infection or malfunction
- Use PICC if IV therapy will exceed 6 days
- Use upper limb sites in preference to lower limb
- Change lower limb PIVC's for upper limb as soon as possible



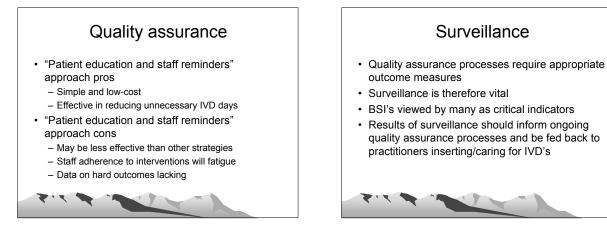








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 Results 			
	Baseline	Intervention	p value
Total patient days	1148	1153	
Total IVD days	625 (54.4%)	506 (43.9%)	p=0.0032
Necessary IVD days	391 (34.1%)	361 (31.3%)	p=0.3137
Unnecessary IVD days	234 (20.4%)	145 (12.6%)	p<0.0001



Summary

- · IVD-related infections are preventable
- · The relative importance of PIVC and CVCrelated infections depends on their relative utilisation
- · Guidelines exist for prevention of IVD-related infection
- Locally appropriate quality assurance programmes and infection surveillance are of paramount importance

References

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17 Jul. 08	(Free Teleclass) Community-Associated MRSA - What's Up & <u>What's Next</u> Speaker: Dr. Rachel Gorwitz, CDC	
22 Jul. 08	(Free British Teleclass) Progress Report from the Chief Nursing Officer Speaker: Christine Beasley, British Department of Health	
7 Aug. 08	(Free Teleclass) Disinfection & Sterilization - Current Issues & New Research Speaker: Dr. William Rutala, University of North Carolina	
14 Aug. 08	(Free Teleclass) Extended Spectrum Beita Lactmases and Infection Control Speaker: Prof. David Patterson Broadcast live from New Zealand Infection control conference	
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